

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

```
SQL> cl scr
```

```
SQL> SET SERVEROUTPUT ON
```

```
SQL> cl scr
```

```
SQL> DECLARE
```

```
2 V_DeptNo Dept.Deptno%TYPE := &DeptNumber;
3 V_DeptName Dept.Dname%TYPE := '&DeptName';
4 V_DeptLoc Dept.Loc%TYPE := '&DeptLocation';
5 E_InvalidDept EXCEPTION;
6 BEGIN
7 UPDATE Dept
8 SET Dname = V_DeptName,
9     Loc = V_DeptLoc
10 WHERE Deptno = V_DeptNo;
11 IF SQL%NOTFOUND THEN
12 DBMS_OUTPUT.PUT_LINE('Sorry! Department Number '||V_Deptno||' Not
Found');
13 END IF;
14 END;
15 /
```

```
Enter value for deptnumber: 40
```

```
Enter value for deptname: SHIPPING
```

```
Enter value for deptlocation: CHENNAI
```

```
PL/SQL procedure successfully completed.
```

```
SQL> SELECT * FROM Dept;
```

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	SHIPPING	CHENNAI

```
SQL> DECLARE
```

```
2 V_DeptNo Dept.Deptno%TYPE := &DeptNumber;
3 V_DeptName Dept.Dname%TYPE := '&DeptName';
4 V_DeptLoc Dept.Loc%TYPE := '&DeptLocation';
5 E_InvalidDept EXCEPTION;
6 BEGIN
7 UPDATE Dept
8 SET Dname = V_DeptName,
9     Loc = V_DeptLoc
10 WHERE Deptno = V_DeptNo;
11 IF SQL%NOTFOUND THEN
```

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```
12 DBMS_OUTPUT.PUT_LINE('Sorry! Department Number '||V_Deptno||' Not Found');
13 END IF;
14 END;
15 /
```

Enter value for deptnumber: 70
Enter value for deptname: CARGO
Enter value for deptlocation: DELHI
Sorry! Department Number 70 Not Found

PL/SQL procedure successfully completed.

SQL> ED
Wrote file afiedt.buf

```
1 DECLARE
2 V_DeptNo Dept.Deptno%TYPE := &DeptNumber;
3 V_DeptName Dept.Dname%TYPE := '&DeptName';
4 V_DeptLoc Dept.Loc%TYPE := '&DeptLocation';
5 E_InvalidDept EXCEPTION;
6 BEGIN
7 UPDATE Dept
8 SET Dname = V_DeptName,
9     Loc = V_DeptLoc
10 WHERE Deptno = V_DeptNo;
11 IF SQL%NOTFOUND THEN
12 RAISE E_InvalidDept;
13 END IF;
14 EXCEPTION
15 WHEN E_InvalidDept THEN
16 DBMS_OUTPUT.PUT_LINE('Sorry! Department Number '||V_Deptno||' Not Found');
17* END;
```

SQL> /
Enter value for deptnumber: 80
Enter value for deptname: COURIER
Enter value for deptlocation: MUMBAI
Sorry! Department Number 80 Not Found

PL/SQL procedure successfully completed.

SQL> ROLLBACK;
Rollback complete.

SQL> ED
Wrote file afiedt.buf

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```
1  DECLARE
2  V_DeptNo Dept.Deptno%TYPE := &DeptNumber;
3  V_DeptName Dept.Dname%TYPE := '&DeptName';
4  V_DeptLoc Dept.Loc%TYPE := '&DeptLocation';
5  E_InvalidDept EXCEPTION;
6  BEGIN
7  UPDATE Dept
8  SET Dname = V_DeptName,
9      Loc = V_DeptLoc
10 WHERE Deptno = V_DeptNo;
11 IF SQL%NOTFOUND THEN
12 RAISE E_InvalidDept;
13 ELSE
14 DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Record Updated');
15 END IF;
16 EXCEPTION
17 WHEN E_InvalidDept THEN
18 DBMS_OUTPUT.PUT_LINE('Sorry! Department Number '||V_Deptno||' Not
Found');
19* END;
SQL> /
Enter value for deptnumber: 40
Enter value for deptname: CARGO
Enter value for deptlocation: MUMBAI
1 Record Updated
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for deptnumber: 60
Enter value for deptname: COURIER
Enter value for deptlocation: DELHI
Sorry! Department Number 60 Not Found
```

PL/SQL procedure successfully completed.

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  DECLARE
2  V_DeptNo Dept.Deptno%TYPE := &DeptNumber;
3  V_DeptName Dept.Dname%TYPE := '&DeptName';
4  V_DeptLoc Dept.Loc%TYPE := '&DeptLocation';
5  E_InvalidDept EXCEPTION;
```

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```
6  E_ValidDept EXCEPTION;
7  BEGIN
8  UPDATE Dept
9  SET Dname = V_DeptName,
10     Loc = V_DeptLoc
11  WHERE Deptno = V_DeptNo;
12  IF SQL%NOTFOUND THEN
13  RAISE E_InvalidDept;
14  ELSE
15  RAISE E_ValidDept;
16  END IF;
17  EXCEPTION
18  WHEN E_InvalidDept THEN
19  DBMS_OUTPUT.PUT_LINE('Sorry! Department Number ||V_Deptno||' Not
Found');
20  WHEN E_ValidDept THEN
21  DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT||' Record Updated');
22* END;
SQL> /
Enter value for deptnumber: 40
Enter value for deptname: COURIER
Enter value for deptlocation: DELHI
1 Record Updated
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for deptnumber: 90
Enter value for deptname: CARGO
Enter value for deptlocation: MUMBAI
Sorry! Department Number 90 Not Found
```

PL/SQL procedure successfully completed.

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> cl scr
```

```
SQL> SELECT MGR, COUNT(*) Staff
2  FROM Emp
3  WHERE MGR IS NOT NULL
4  GROUP BY MGR;
```

MGR	STAFF
7839	3

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7782	1
7698	5
7902	1
7566	2
7788	1

6 rows selected.

SQL> cl scr

```
SQL> DECLARE
  2  V_Ename Emp.Ename%TYPE;
  3  V_Job Emp.Job%TYPE;
  4  E_ManyEmployees EXCEPTION;
  5  CURSOR EmpCursor
  6  IS
  7  SELECT MGR, COUNT(*) Tot_Emp
  8  FROM Emp
  9  WHERE MGR IS NOT NULL
 10  GROUP BY MGR;
 11  BEGIN
 12  FOR MgrRecord IN EmpCursor
 13  LOOP
 14    BEGIN
 15    SELECT Ename, Job INTO V_Ename, V_Job
 16    FROM Emp
 17    WHERE Empno = MgrRecord.Mgr;
 18    IF MgrRecord.Tot_Emp > 3 THEN
 19    RAISE E_ManyEmployees;
 20    ELSE
 21    DBMS_OUTPUT.PUT_LINE('Employee, '||V_Ename||' Manages
'||MgrRecord.Tot_Emp||' Employees.');
```

Employee, KING Manages 3 Employees.
Employee, CLARK Manages 1 Employees.
Employee, BLAKE Manages Many Employees, Chance of decreasing his Performance, Recommend for Extra Allowances or Emoluments.
Employee, FORD Manages 1 Employees.

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Employee, JONES Manages 2 Employees.
Employee, SCOTT Manages 1 Employees.

PL/SQL procedure successfully completed.

SQL> cl scr

SQL> ROLLBACK;

Rollback complete.

SQL> cl scr

```
SQL> DECLARE
  2  V_Empno Emp.Empno%TYPE := &Gempno;
  3  V_Ename Emp.Ename%TYPE;
  4  V_Job Emp.Job%TYPE;
  5  V_Sal Emp.Sal%TYPE;
  6  BEGIN
  7  SELECT
  8  Empno, Ename, Job, Sal
  9  INTO
 10  V_Empno, V_Ename, V_Job, V_Sal
 11  FROM Emp
 12  WHERE Empno = V_Empno;
 13  DBMS_OUTPUT.PUT_LINE('The Employee : '||V_Ename||', '||V_Job||',
'||V_Loc);
 14  EXCEPTION
 15  WHEN NO_DATA_FOUND THEN
 16  DBMS_OUTPUT.PUT_LINE('Sorry! '||V_Empno||' is Not Found in The
Database');
 17  END;
 18  /
Enter value for gempno: 7839
DBMS_OUTPUT.PUT_LINE('The Employee : '||V_Ename||', '||V_Job||',
'||V_Loc);
```

*

ERROR at line 13:
ORA-06550: line 13, column 69:
PLS-00201: identifier 'V_LOC' must be declared
ORA-06550: line 13, column 1:
PL/SQL: Statement ignored

SQL> ED
Wrote file afiedt.buf

1 DECLARE

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```
2  V_Empno Emp.Empno%TYPE := &Gempno;
3  V_Ename Emp.Ename%TYPE;
4  V_Job Emp.Job%TYPE;
5  V_Sal Emp.Sal%TYPE;
6  BEGIN
7  SELECT
8  Empno, Ename, Job, Sal
9  INTO
10 V_Empno, V_Ename, V_Job, V_Sal
11 FROM Emp
12 WHERE Empno = V_Empno;
13 DBMS_OUTPUT.PUT_LINE('The Employee : '||V_Ename||', '||V_Job||',
'||V_Sal);
14 EXCEPTION
15 WHEN NO_DATA_FOUND THEN
16 DBMS_OUTPUT.PUT_LINE('Sorry! '||V_Empno||' is Not Found in The
Database');
17* END;
SQL> /
Enter value for gempno: 7839
The Employee : KING, PRESIDENT, 5000
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for gempno: 2234
Sorry! 2234 is Not Found in The Database
```

PL/SQL procedure successfully completed.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  DECLARE
2  V_Empno Emp.Empno%TYPE := &Gempno;
3  V_Ename Emp.Ename%TYPE;
4  V_Job Emp.Job%TYPE;
5  V_Sal Emp.Sal%TYPE;
6  BEGIN
7  SELECT
8  Empno, Ename, Job, Sal
9  INTO
10 V_Empno, V_Ename, V_Job, V_Sal
11 FROM Emp
12 WHERE Empno = V_Empno;
13 DBMS_OUTPUT.PUT_LINE('The Employee : '||V_Ename||', '||V_Job||',
'||V_Sal);
14 EXCEPTION
```

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```
15 WHEN NO_DATA_FOUND THEN
16 DBMS_OUTPUT.PUT_LINE('Sorry! '||V_Empno||' is Not Found in The
Database');
17 RAISE_APPLICATION_ERROR(-20100, 'Database Server Says :
'||SQLCODE||' With Message As '||SQLERRM);
18* END;
```

SQL> /

Enter value for gempno: 7839

The Employee : KING, PRESIDENT, 5000

PL/SQL procedure successfully completed.

SQL> /

Enter value for gempno: 2234

Sorry! 2234 is Not Found in The Database

DECLARE

*

ERROR at line 1:

ORA-20100: Database Server Says : 100 With Message As ORA-01403: no data found

ORA-06512: at line 17

SQL> cl scr

SQL> DECLARE

2 V_Deptno Dept.Deptno%TYPE := &CDeptno;

3 V_Loc Dept.Loc%TYPE := UPPER('&GLoc');

4 E_DeptNotFound EXCEPTION;

5 BEGIN

6 UPDATE Dept

7 SET Loc = V_Loc

8 WHERE Deptno = V_Deptno;

9 IF SQL%NOTFOUND THEN

10 RAISE E_DeptNotFound;

11 END IF;

12 EXCEPTION

13 WHEN E_DeptNotFound THEN

14 DBMS_OUTPUT.PUT_LINE('Sorry! Department Not Found');

15 END;

16 /

Enter value for gdeptno: 60

Enter value for gloc: CARGO

Sorry! Department Not Found

PL/SQL procedure successfully completed.

SQL> ED

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```
1  DECLARE
2  V_Deptno Dept.Deptno%TYPE := &GDeptno;
3  V_Loc Dept.Loc%TYPE := UPPER('&GLoc');
4  E_DeptNotFound EXCEPTION;
5  BEGIN
6  UPDATE Dept
7  SET Loc = V_Loc
8  WHERE Deptno = V_Deptno;
9  IF SQL%NOTFOUND THEN
10 RAISE E_DeptNotFound;
11 END IF;
12 EXCEPTION
13 WHEN E_DeptNotFound THEN
14 DBMS_OUTPUT.PUT_LINE('Sorry! Department Not Found');
15 RAISE_APPLICATION_ERROR(-20110, 'Please Provide An Existing
Department Number');
16* END;
SQL> /
Enter value for gdeptno: 70
Enter value for gloc: CARGO
Sorry! Department Not Found
DECLARE
*
ERROR at line 1:
ORA-20110: Please Provide An Existing Department Number
ORA-06512: at line 15
```

SQL> ED

Wrote file afiedt.buf

```
1  DECLARE
2  V_Deptno Dept.Deptno%TYPE := &GDeptno;
3  V_Loc Dept.Loc%TYPE := UPPER('&GLoc');
4  E_DeptNotFound EXCEPTION;
5  BEGIN
6  UPDATE Dept
7  SET Loc = V_Loc
8  WHERE Deptno = V_Deptno;
9  IF SQL%NOTFOUND THEN
10 RAISE_APPLICATION_ERROR(-20110, 'Please Provide An Existing
Department Number');
11 END IF;
12* END;
SQL> /
Enter value for gdeptno: 70
```

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Enter value for gloc: COURIER

DECLARE

*

ERROR at line 1:

ORA-20110: Please Provide An Existing Department Number

ORA-06512: at line 10

SQL> cl scr

SQL> SPOOL OFF

Oracle BY Sathish Yellanki (SkyEss)

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